



Arizona Department of Health Services

Office of Border Health
Office of the Assistant Director
400 W Congress, suite 116 Tucson, AZ 85701
Tel: (520) 770-3113 Fax: (520) 770-3307

Douglas A. Ducey,
Governor
Cara M. Christ, MD,
Director

Arizona Sonora Border Region Influenza Summary

Border Infectious Disease Surveillance Program
2015-2016 Influenza Season (10/04/2015-10/01/2016)
MMWR Week 15 (04/10/2016-04/16/2016)

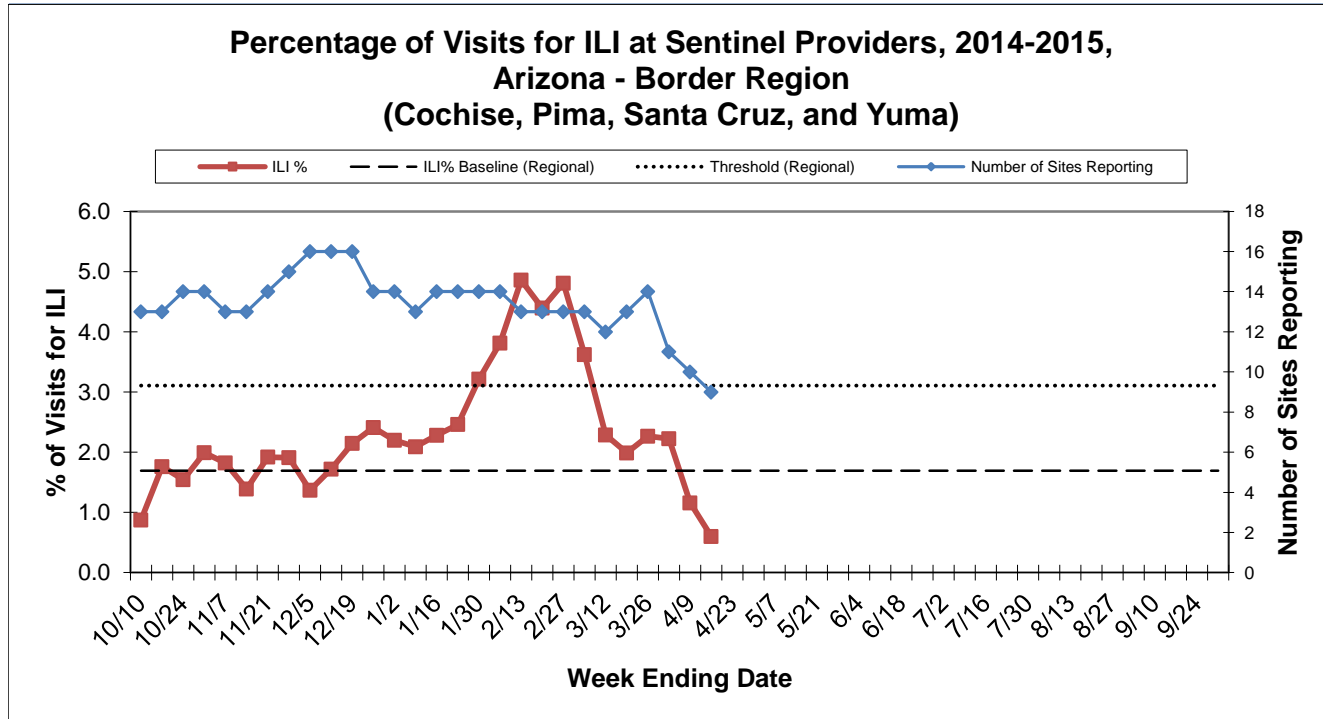
Border Influenza Activity Highlights

- There were 46 new confirmed or suspected cases of influenza reported in week 15 from the Arizona Border region counties.
- Influenza-Like Illness activity at sentinel providers was below the baseline level in week 14.
- The cases included in this report represent a small proportion of the true number of influenza cases.

Influenza-Like Illness (ILI) Sentinel Provider Surveillance

In Arizona's border region 9 providers enrolled in this week National Outpatient Influenza-Like Illness Surveillance Network (ILINet). The border region is defined as the geographical area approximately 100 kilometers (60 miles) north and south of the US/Mexico Border. On a weekly basis, these sentinel sites report the total number of patients seen with Influenza-Like Illness (ILI) and the total number of patient seen. ILI is defined as a fever of at least 100°F plus either a cough or sore throat in absence of a known cause other than influenza.

Percentage of Visits for ILI at Sentinel Providers, Arizona Border Region:



The proportion of patient visits to sentinel providers for ILI in the Arizona border region was 1.7% for week 13 (Week ending 04/09/16) which is slightly above the baseline level for the border region. The border region ILI baseline is 1.69%*. The epidemic threshold for the Arizona border region is 3.1%*. In weeks when a relatively low number of reporting providers are present, the ILI proportion may not be representative for the border region of Arizona.



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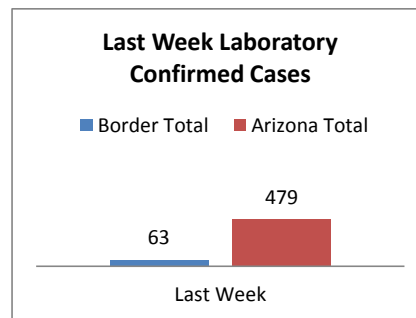
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Laboratory-Confirmed Cases Reported, by County, 2015-2016 Influenza Season:

- These totals include ALL positive influenza tests that were reported to ADHS by the border counties through Week 14 (April 03, 2016 – April 09, 2016). These include many types of tests, such as rapid antigen tests, direct fluorescent antigen tests, culture, or molecular testing (reverse transcriptase polymerase chain reaction or RT-PCR). Many of these cannot distinguish different types of influenza, but do provide information about changes in the amount of influenza in the population.

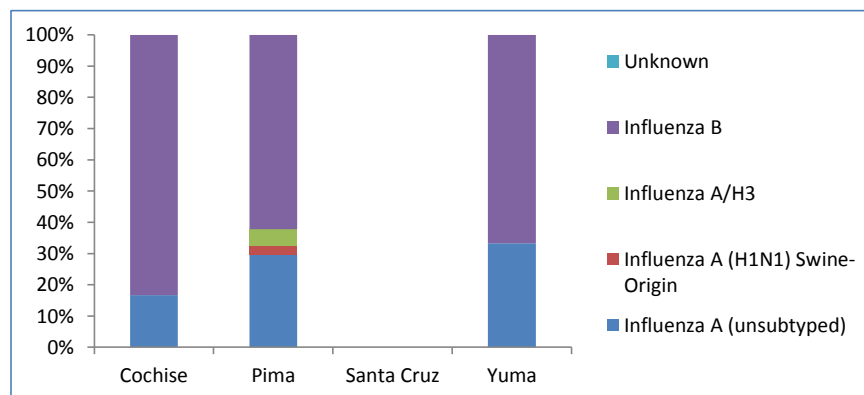
County	Current Season 2015-2016	Past Three Weeks	Last Week
Cochise	584	26	14
Pima	3,271	216	44
Santa Cruz	146	10	0
Yuma	396	37	5
Border Total	4,397	289	63
Arizona Total	22,515	2,387	479



Influenza Types and Subtypes in the Arizona Border Region, 2015-2016 in Week 14:

The influenza types and subtypes from **all confirmed influenza cases** in the Arizona border region are shown in the table/graph below.

Type/Subtype	Cochise	Pima	Santa Cruz	Yuma
Influenza A (unsubtyped)	1	11	0	1
Influenza A (H1N1) Swine-Origin	0	1	0	0
Influenza A/H3	0	2	0	0
Influenza B	5	23	0	2
Unknown	0	0	0	0
TOTAL	6	37	0	3





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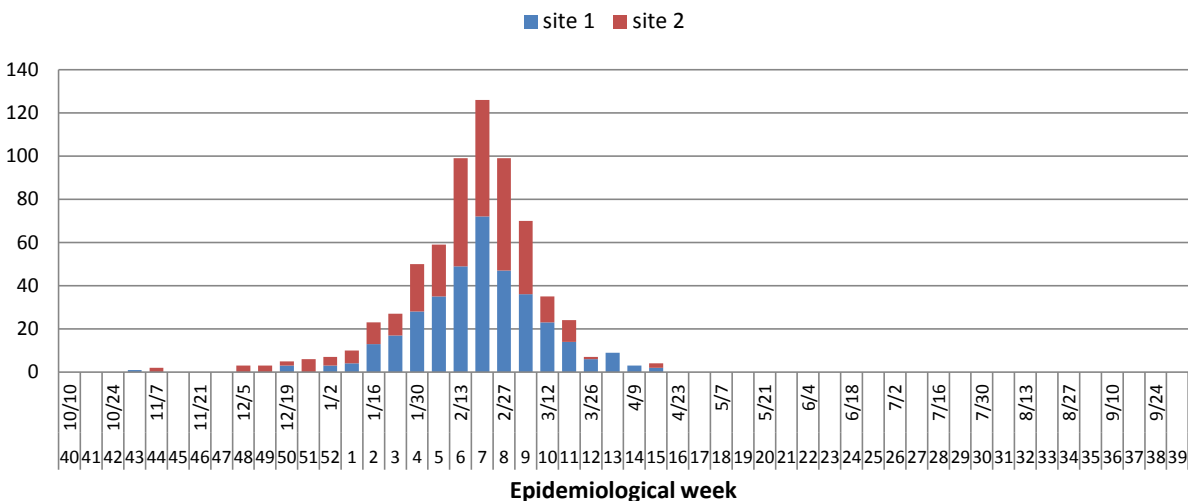
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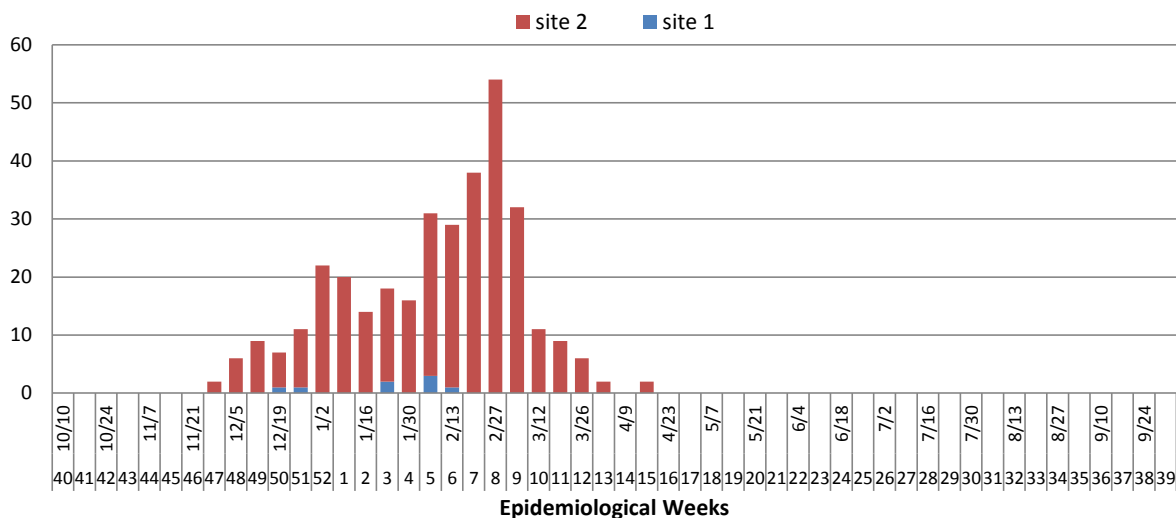
BORDER REGION SENTINEL SITES

The Arizona Border Infectious Disease Surveillance (BIDS) program of the Office of Border Health has initiated enhanced sentinel-site surveillance at selected acute care hospitals within the Arizona border region. The sites are not ILI-Net providers but provide additional information on influenza results on a weekly basis.

Positive Rapid Flu Tests at Border Region Sentinel Sites



Positive Rapid RSV Tests at Border Region Sentinel Sites





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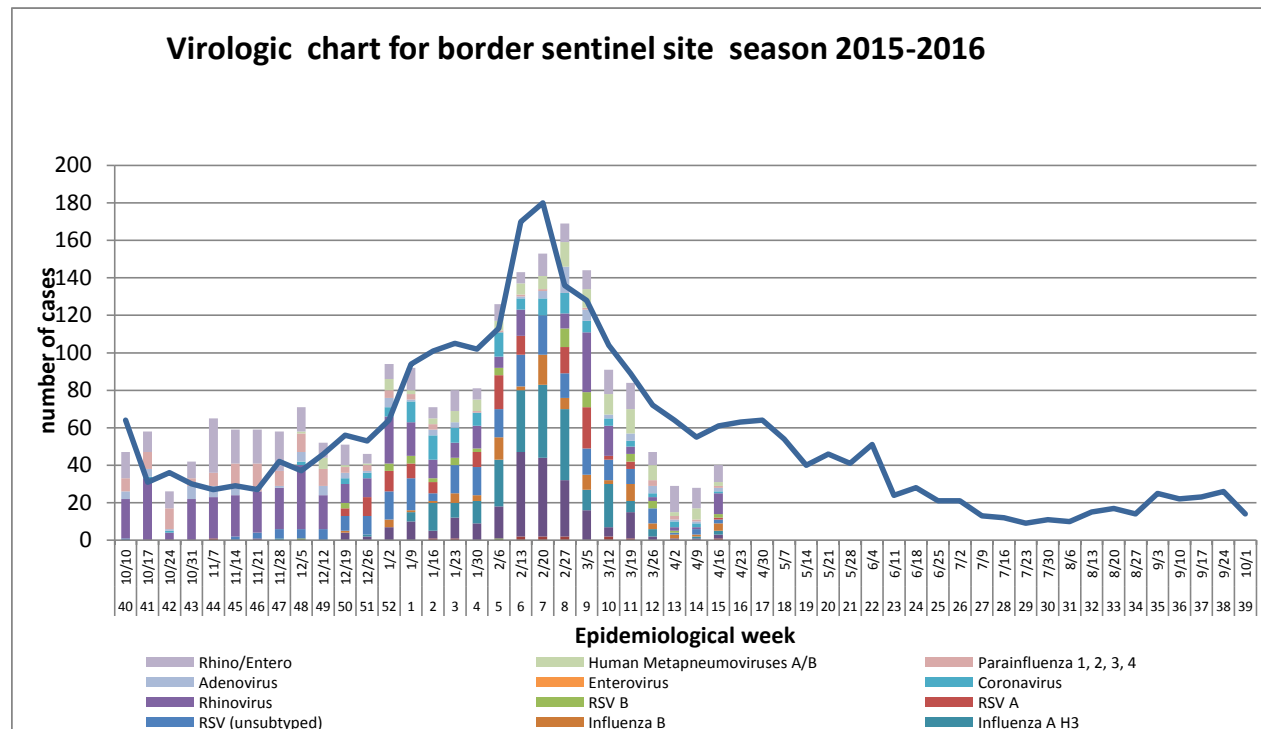
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BORDER REGION SENTINEL SITES

One of the BIDS programs sentinel sites has been providing virologic data from all the molecular respiratory testing done in the hospital site. This includes several reportable conditions such as influenza and respiratory syncytial virus (RSV), and also infections that are not reportable such as adenovirus, parainfluenza, coxsackievirus/echovirus, rhinovirus, and coronavirus. These aggregate data show trends in respiratory pathogens among all patients receiving the molecular testing.





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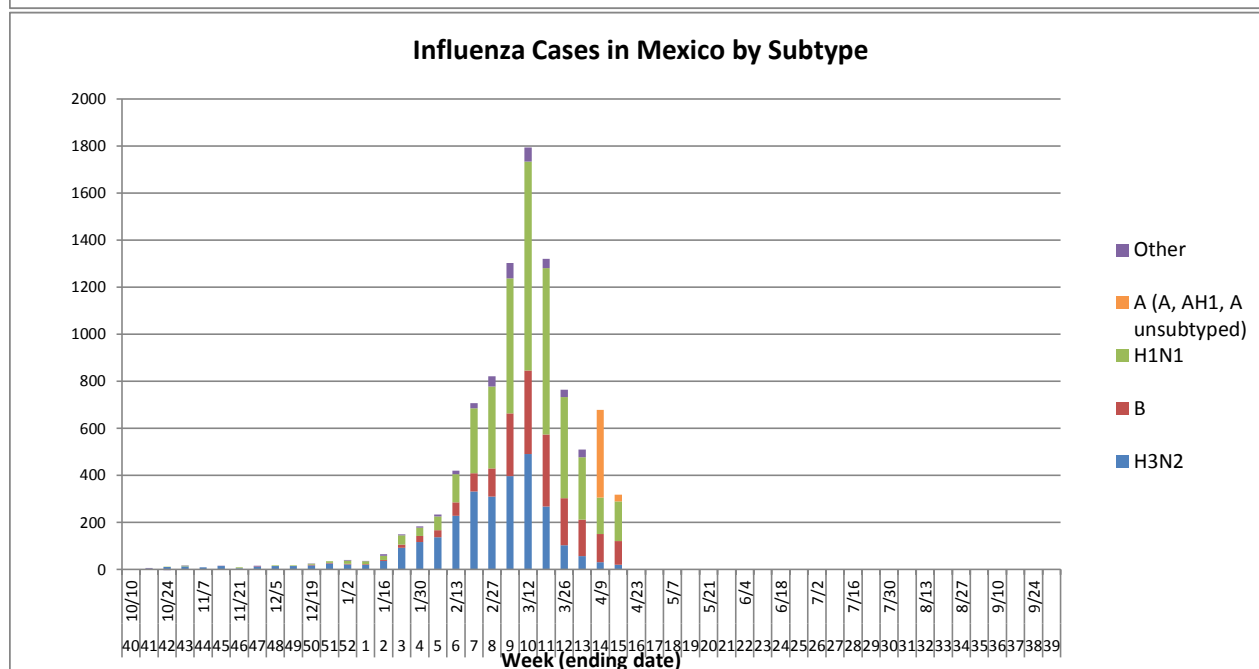
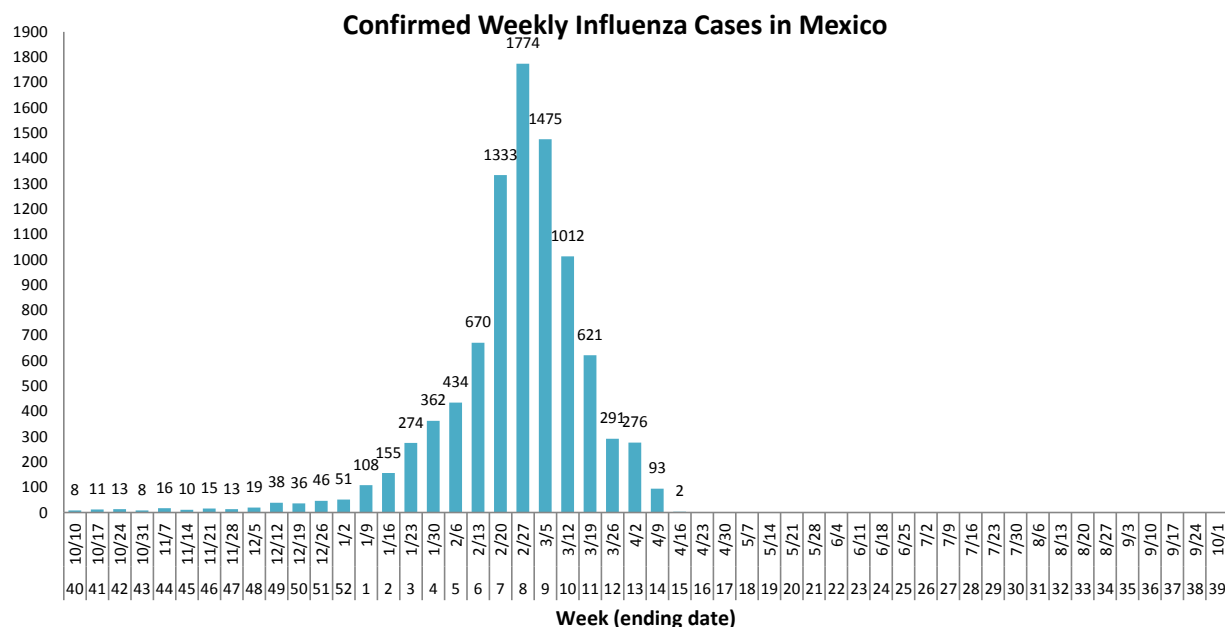
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Mexico Influenza Season 2015-2016

The Office of Border Health and BIDS program have developed these graphs to give partners an overview of the situation of confirmed Influenza cases reported in **Mexico**. It reflects official information provided by the General Epidemiologic Direction (DGE) in Mexico.





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Mexico Influenza Season 2015-2016 by State

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Case Locations, Mexican States, Week 15, 2016



Cummulative cases information from 10/04/2015 to 04/16/2016





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ACKNOWLEDGMENTS

We gratefully acknowledge all our border partners for their contributions and support to our program. Information is received from ADHS Office of Infectious Disease Services, Border Health Counties and participating hospital facilities.

Any questions please contact Mariana Casal: mariana.casal@azdhs.gov